

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits   | Search Query   | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|--------|--|--|------------------|---------|------------------|
| S1    | 94     | ((CHRISTIAN) near2 (MULLER)).<br>INV.  | US-PGPR; USPAT;<br>USOCR   | ADJ              | ON      | 2010/03/08 14:36 |
| S2    | 8      | ((JEAN-LOUIS) near2 (DUPIN)).<br>INV.  | US-PGPR; USPAT;<br>USOCR   | ADJ              | ON      | 2010/03/08 14:36 |
| S3    | 7      | ((JEAN-CLAUDE) near2<br>(HEITZLER)). INV.  | US-PGPR; USPAT;<br>USOCR   | ADJ              | ON      | 2010/03/08 14:36 |
| S7    | 704    | (219/672).CCLS.  | US-PGPR; USPAT;<br>USOCR; FRPS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | OFF     | 2010/03/08 14:45 |
| S12   | 200    | (heat\$3 with generat\$3) with<br>(thermal with element) with<br>(magnetic with element)     | US-PGPR; USPAT;<br>USOCR   | ADJ              | ON      | 2010/06/01 19:01 |
| S13   | 15     | S12 and (magnetic with modulat<br>\$3)   | US-PGPR; USPAT;<br>USOCR   | ADJ              | ON      | 2010/06/01 19:01 |
| S14   | 3      | S12 and (magneto-caloric)  | US-PGPR; USPAT;<br>USOCR   | ADJ              | ON      | 2010/06/01 19:04 |
| S15   | 123156 | *219/\$.ccls.  | US-PGPR; USPAT;<br>USOCR   | ADJ              | ON      | 2010/06/01 19:08 |
| S16   | 16     | S12 and S15  | US-PGPR; USPAT;<br>USOCR   | ADJ              | ON      | 2010/06/01 19:09 |
| S17   | 705    | (219/672).CCLS.  | US-PGPR; USPAT;<br>USOCR; FRPS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | OFF     | 2010/06/01 19:12 |
| S18   | 3      | S17 and ((thermal with element)<br>with (magnetic with element))                             | US-PGPR; USPAT;<br>USOCR   | ADJ              | ON      | 2010/06/01 19:12 |
| S19   | 164    | (heat with generat\$3) with<br>(thermal with element) with<br>(magnetic with element)        | US-PGPR; USPAT;<br>USOCR   | ADJ              | ON      | 2010/06/01 19:16 |
| S20   | 9      | S19 and S15  | US-PGPR; USPAT;<br>USOCR   | ADJ              | ON      | 2010/06/01 19:17 |
| S21   | 59245  | (heat\$3 with generator)   | US-PGPR; USPAT;<br>USOCR   | ADJ              | ON      | 2010/06/01 19:37 |
| S22   | 92     | S21 and (thermal with element)<br>with (magnetic with element)                               | US-PGPR; USPAT;<br>USOCR   | ADJ              | ON      | 2010/06/01 19:38 |
| S23   | 4      | S22 and (magnetic with modulat<br>\$3)   | US-PGPR; USPAT;<br>USOCR   | ADJ              | ON      | 2010/06/01 19:38 |
| S24   | 356    | (thermal with piece) with<br>(magnetic with piece)   | US-PGPR; USPAT;<br>USOCR   | ADJ              | ON      | 2010/06/01 19:50 |
| S25   | 13     | S21 and S24  | US-PGPR; USPAT;<br>USOCR   | ADJ              | ON      | 2010/06/01 19:50 |
| S26   | 496    | (62/3.1).CCLS.   | US-PGPR; USPAT;<br>USOCR; FRPS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | OFF     | 2010/06/01 19:54 |
| S28   | 48     | (heat\$3 with generat\$3) with<br>(thermal with component) with<br>(magnetic with component) | US-PGPR; USPAT;<br>USOCR   | ADJ              | ON      | 2010/06/03 10:06 |

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| S29 | 15    | (heat\$3 with generat\$3) with (thermal with module) with (magnetic with module) | US-PGRUB; USPAT; USOCR                                   | ADJ | ON  | 2010/06/03 10:11 |
| S30 | 1114  | (heat\$3 with generat\$3) with (thermal ) with (magnetic)                        | US-PGRUB; USPAT; USOCR                                   | ADJ | ON  | 2010/06/03 10:18 |
| S31 | 3     | S30 and (magnetic modulat\$3)  | US-PGRUB; USPAT; USOCR                                   | ADJ | ON  | 2010/06/03 10:19 |
| S32 | 285   | (219/236).CCLS.  | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR  | OFF | 2010/06/03 10:21 |
| S34 | 6     | S32 and magnetic and thermal   | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON  | 2010/06/03 10:21 |
| S35 | 11398 | heat generator   | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON  | 2010/06/03 10:24 |
| S36 | 665   | S35 and magnetic and thermal   | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON  | 2010/06/03 10:24 |
| S37 | 1     | S36 and (magnetic modulat\$3)  | US-PGRUB; USPAT; USOCR                                   | ADJ | ON  | 2010/06/03 10:24 |
| S38 | 870   | (magnetic modulat\$3)  | US-PGRUB; USPAT; USOCR                                   | ADJ | ON  | 2010/06/03 10:25 |
| S39 | 1     | S35 and S38  | US-PGRUB; USPAT; USOCR                                   | ADJ | ON  | 2010/06/03 10:25 |
| S42 | 752   | (62/335).CCLS.   | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR  | OFF | 2010/06/03 11:01 |
| S43 | 39    | S42 and (magnet\$2) and (thermal or heat)  | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON  | 2010/06/03 11:02 |
| S48 | 90    | (magnetocaloric or magneto-caloric) near material                                | US-PGRUB; USPAT; USOCR                                   | ADJ | ON  | 2010/06/03 14:26 |
| S49 | 48    | S48 and magnet and thermal   | US-PGRUB; USPAT; USOCR                                   | ADJ | ON  | 2010/06/03 14:45 |
| S50 | 870   | (magnetic modulat\$3)  | US-PGRUB; USPAT; USOCR                                   | ADJ | ON  | 2010/06/03 14:53 |
| S51 | 1     | S50 and (convergence and divergence)   | US-PGRUB; USPAT; USOCR                                   | ADJ | ON  | 2010/06/03 14:53 |
| S56 | 2688  | magnet\$3 and caloric  | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON  | 2010/06/03 17:47 |
| S57 | 68325 | modulat\$3 and (magnetic near field)   | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON  | 2010/06/03 17:48 |
| S58 | 421   | S56 and S57  | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON  | 2010/06/03 17:48 |
| S59 | 16425 | heat near generator  | US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON  | 2010/06/03 17:49 |

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| S60 | 96    | S56 and S59   | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/03 17:49 |
| S61 | 10077 | (varying or vary or varied) near<br>magnetic near field   | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/03 17:52 |
| S62 | 8     | S61 and S56   | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/03 17:52 |
| S63 | 152   | magneto near caloric  | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/03 18:08 |
| S64 | 4     | S59 and S63   | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/03 18:08 |
| S65 | 23    | magneto near caloric near material  | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/03 18:09 |
| S66 | 1981  | (adjust\$3) near magnetic near field  | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/03 18:14 |
| S67 | 1     | S66 and S56   | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/03 18:14 |
| S81 | 4735  | (magnet\$3 with gadolinium)   | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/06 11:32 |
| S82 | 414   | S81 and (heat\$3 with generat\$3)   | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/06 11:32 |
| S83 | 153   | S82 and (magnet\$3 with control\$4)   | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/06 11:32 |
| S86 | 5140  | (magnet\$3 with gadolinium) or<br>(magnetocaloric) or (magneto-<br>caloric) or (magneto near caloric)         | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/06 12:15 |
| S87 | 5145  | (magnet\$3 with gadolinium) or<br>(magnetocaloric) or (magneto-<br>caloric) or (magnet\$3 near caloric)       | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/06 12:15 |
| S88 | 559   | S87 and (heat\$3 with generat\$3)   | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/06 12:17 |
| S89 | 176   | S88 and ((control\$4 or adjust\$3 or<br>chang\$3 or vary or vaying or<br>varied) with (magnet\$3 with field)) | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/06 12:20 |
| S92 | 493   | (219/660).CQL.S   | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR  | OFF | 2010/06/06 13:23 |

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| S93  | 123194 | "219"/\$.cds.   | US-PGRUB; USPAT;<br>USOCR   | ADJ | ON  | 2010/06/06 13:24 |
| S94  | 17     | S87 and S93   | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/06 13:24 |
| S95  | 106786 | "62"/\$.cds.  | US-PGRUB; USPAT;<br>USOCR   | ADJ | ON  | 2010/06/06 13:25 |
| S96  | 190    | S87 and S95   | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/06 13:26 |
| S99  | 276    | (219/661).CQLS.   | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR  | OFF | 2010/06/06 14:38 |
| S100 | 118    | S99 and magnet\$4   | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/06 14:39 |
| S101 | 2233   | S87 and (refrigeration or<br>refrigerator or cool\$3)   | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/06 14:48 |
| S102 | 2141   | S101 and magnetic   | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/06 14:48 |
| S103 | 1      | S102 and S84  | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/06 14:50 |
| S104 | 397    | S101 and ((control\$4 or adjust\$3<br>or chang\$3 or vary or varying or<br>varied) with (magnet\$3 with field)) | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/06 14:51 |
| S105 | 245    | S104 not S89  | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/06 14:52 |
| S106 | 415    | S101 and ((control\$4 or adjust\$3<br>or chang\$3 or vary or varying or<br>varied) with (magnet\$3 with field)) | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/06 15:02 |
| S107 | 263    | S106 not S89  | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/06 15:03 |
| S109 | 155    | S107 and magnet   | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/06 15:11 |
| S111 | 328    | (219/663).CQLS.   | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR  | OFF | 2010/06/17 16:05 |
| S113 | 159    | S111 and magnet\$6  | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/17 16:05 |
| S114 | 429    | (219/667).CQLS.   | US-PGRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR  | OFF | 2010/06/17 16:07 |

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| S115 | 208  | S114 and magnet\$6  | US-PGPRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/17 16:08 |
| S116 | 147  | (219/666).CCLS  | US-PGPRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR  | OFF | 2010/06/17 16:10 |
| S117 | 58   | S116 and magnet\$6  | US-PGPRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/17 16:10 |
| S118 | 419  | (219/673).CCLS  | US-PGPRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR  | OFF | 2010/06/17 16:15 |
| S119 | 194  | S118 and magnet\$6  | US-PGPRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/17 16:16 |
| S120 | 1976 | (62/6).CCLS   | US-PGPRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR  | OFF | 2010/06/17 16:18 |
| S121 | 559  | S120 and magnet\$6  | US-PGPRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | ADJ | ON  | 2010/06/17 16:18 |
| S123 | 688  | (62/467).CCLS   | US-PGPRUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR  | OFF | 2010/10/26 18:25 |
| S124 | 1    | S123 and ((thermal with element)<br>with (magnetic with element)) | US-PGPRUB; USPAT;<br>USOCR   | ADJ | ON  | 2010/10/26 18:26 |
| S126 | 202  | S123 and (heat\$3 with generat\$3)                                | US-PGPRUB; USPAT;<br>USOCR   | ADJ | ON  | 2010/10/26 18:27 |
| S127 | 38   | S126 and thermal and magnetic                                     | US-PGPRUB; USPAT;<br>USOCR   | ADJ | ON  | 2010/10/26 18:28 |

## EAST Search History (Interference)

| Ref # | Hits | Search Query   | DBs              | Default Operator | Plurals | Time Stamp       |
|-------|------|--|------------------|------------------|---------|------------------|
| S128  | 1    | (heat\$3 with generator) with (magneto<br>near caloric) with (thermal near element)<br>with (magnetic near element) with<br>(magnetic near modulat\$3) | US-PGPRUB; USPAT | ADJ              | ON      | 2010/10/26 18:22 |

10/28/2010 1:38:36 PM

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